

Nihal Magdy

Full Stack Developer

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Summary

Results-driven Full Stack Developer with **5 years of experience** delivering scalable web applications across diverse industries, including **FinTech, E-Payments and Telecommunications**. Strong expertise in **Java for backend development and Angular for frontend**, with a proven ability to adapt to different business environments and technical challenges. Skilled in the full software development lifecycle, from requirement analysis to deployment and maintenance, with a strong focus on performance, security, and clean code.

Experience

- **Cyshield (Fintech and Middleware teams), Egypt**
 - **Senior Software Developer** - (July 2024 - Present)
 - Participated in backend microservices design, development, architecture workshops and facilitated knowledge-sharing to enhance team skills.
 - **Vodafone Egypt (Offshored from Systems Limited), Egypt**
 - **Senior Software Developer** - (July 2023 - May 2024)
 - Participated in UI/UX design and revamping as a Full Stack Developer collaborating across teams for integration and smooth deployment.
 - **Aman Holding (E-Payments), Egypt**
 - **Software Developer** - (June 2022 - July 2023)
 - Developed tool to automate workflows, improve efficiency and better testing.
 - **Edaa telecom solutions, Egypt**
 - **Solutions Developer** - (June 2021 - June 2022)
 - Refactored the codebase to improve readability and reduce onboarding time.
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Education

- **Professional Diploma in Software Development**
Information Technology Institute (ITI) – 9 Months Diploma | Oct 2020 - May 2021
A 9-month intensive, government-sponsored program focused on modern telecom software development using open-source technologies.
 - **Bachelor's degree in Software Engineering**
Benha University – Shoubra Faculty of Engineering | Sept 2015 - May 2020
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Certificates

- **Certified Kubernetes Application Developer (CKAD)**
The Linux Foundation | Jan 2025 | Credential ID: LF-t86bn1oyh6 | [Certificate Link](#)

Skills

- **Programming:** Java, C++ (Proficient); Python, C, Kotlin, Erlang (Familiar)
 - **Web:** HTML, CSS, TypeScript, Angular, Bootstrap, REST APIs, JSON (Proficient); JavaScript, JSP, JSF, XML, Responsive Design (Familiar)
 - **Frameworks/Tools:** Spring (Boot, MVC, Data, Security, AOP, Batch), Maven (Proficient); NestJS, JAINSLLEE (Familiar)
 - **Architecture:** Microservices, Monolithic, Docker, Kubernetes, Tomcat, Restcomm (Proficient); JBOSS (Familiar)
 - **Databases:** PostgreSQL, MySQL, H2, JDBC, JPA, MinIO (Proficient); MariaDB, MongoDB (Familiar)
 - **Messaging:** Kafka, MQTT, Redis (Proficient)
 - **Testing:** Unit, Integration, API, BDD, Test Design, Bug Tracking (Proficient)
 - **Version Control:** Git (Proficient); SVN, ELK Stack (Familiar)
 - **Cloud/ID:** Keycloak, Cloud Fundamentals (Proficient)
 - **SysAdmin:** Red Hat (RHCSA I–III), SFTP (Proficient); Bash, Solaris (Familiar)
 - **Dev Practices:** Agile (Scrum, Kanban), Problem Solving (Proficient)
 - **Telecom & Networking:** GSM, UMTS, LTE, 5G, VAS, IMS, SS7, eTOM (Familiar)
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Projects

Enterprise Systems & Tools Projects

Secure Batch Flow – File processing system using Spring Batch, Redis, MINIO.

Keycloak Customization – Extended Keycloak via custom Java logic.

Collection & Extranet Revamps – Revamped modules like Billing, Orders, and MNP using Spring Boot & Angular.

Offline Billing / Recharge Request – Billing & payment systems with approval, auditing, and reporting features.

BDD Tool / Smart Vista Adapter – Internal tools for service integration and billing system adaptation.

Telecom & IoT Projects

Connected Meter – Smart meter charging app using MQTT, Kafka.

Emergency Dashboard – Angular app for managing telecom emergency credits.

Call Blocker / Content SDP – VAS and charging services for customer control and subscriptions.

Traffic Simulator – Simulates telecom traffic (SMS, voice) for testing.

Web & Game Development Projects

E-commerce Store – Online shopping site with Android integration.

Tic Tac Toe / Sudoku – Java-based games with AI and multiplayer modes.

Pop Thief Game – Browser game using HTML5 and JavaScript.

AI & ML Projects

Safety Driving – Python system detecting drowsy drivers using video analysis.

Twitter Suggestion Engine – Java-based influencer recommendation system.

CLI & Scripting Projects

CLI DBMS – Bash-based database management with file system storage.

Courses

- **Udemy:** Spring Security (JWT, OAuth2), Spring Batch, Microservices, Keycloak, Angular, JUnit 5, Mockito, Kubernetes (with Tests).
- **Java Brains:** Spring Boot.
- **Pluralsight:** PCI Compliance & Payment Security, Jira Essentials.
- **A.U.P.S (AUC Certified):** English Language Course.
- **EDX / IMT School / EmbeddedFab:** Embedded Systems, IoT.
- **Coursera / Stanford:** Machine Learning, Deep Learning.
- **IBM (Smart Village):** Artificial Intelligence.
- **Udacity:** Computer Architecture.

Internships

- **Valeo, Egypt**
 - **Software Developer** - (Sept 2019 - May 2020)
 - Applied image processing and machine learning to the Faculty Graduation Project (**Safety Driving**) under their supervision.
- **Sinai Gas, Egypt**
 - **Database Developer** - (Aug 2018 - Sept 2018)
 - Collaborated across departments to identify issues and suggest improvements for system effectiveness.

Languages

- **Arabic** – Fluent
- **English** – Advanced

Extracurricular Activities and Competitions

- **Egypt IoT Challenge (2020)** – First place in Graduation Project track for best pitching.
- **Hour of Code Organizer (2018 & 2019)** – Coding event at Shoubra Faculty of Engineering.
- **TIEC (2019):** InnovEgypt Innovation Program.
- **Embedded Systems Committee Member (2017)** – MSP.
- **Python Committee Member (2016)** – IEEE Benha University Branch.
- **Trainee & Trainer (2016)** – ACM.
- **Robotics Workshop (2016)** – Developed line follower robot with C and Arduino.